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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/685,210		10/14/2003	Lawrence C. Lei	007967 USA/CMP/ECP	4105	
	7590 08/10/2005				EXAMINER	
PATENT C		L	PATIDAR, JAY M			
Legal Affairs Applied Mate			ART UNIT	PAPER NUMBER		
Box 450A	citais, inc	•	2862			
Santa Clara, CA 95052				DATE MAILED: 08/10/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	_				
	10/685,210	LEI ET AL.					
Office Action Summary	Examiner	Art Unit					
	Jay M. Patidar	2862					
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 24 M	lay 2005.						
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This	action is non-final.						
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) ⊠ Claim(s) 1-45 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5) □ Claim(s) is/are allowed.  6) ⊠ Claim(s) 1-45 is/are rejected.  7) □ Claim(s) is/are objected to.  8) □ Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the Eddrawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).					
Priority under 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	(PTO-413) tte atent Application (PTO-152)					

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1. This communication is in response to applicant's amendment filed on May 24, 2005.

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2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1,11,34-35,39 are rejected under 35 U.S.C. 102(b) as being anticipated by Glass, III et al. (4,766,374).

Glass, III discloses an apparatus with a first and second eddy current sensors 30, a mechanism for moving the test object respectively; a position sensing means 34, and an evaluation circuit for determining the flatness of the object at one or more sampling locations.

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject

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matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-2,6-12,15-19,23-28,31-35,38-41,43-45 are rejected under 35 U.S.C. 103(a) as being unpatentable over DE 42 27 734 in view of Baker et al. (4,880,348).

As to claims 1,6,7,11,15,18,23,24,28,31,34-35,38-41,43-44, '734 discloses an apparatus for measuring thickness of an object comprising an eddy current sensor having first and second sensor heads 15,16 (fig. 3a) positioned to have a predetermined gap therebetween for passage by at least a portion of the object through said gap; said heads making measurements at one or more sampling locations on the object when at said gap; a mechanism for moving the test object through the gap which said measurement are made; and an evaluation circuit for determining the thickness of the object (Figs. 1,2,3a,5a, page 3, line 57-page 3, line 20). '734 does not explicitly disclose a position sensing means for determining the position of the object. Baker teaches to use position sensing means 50,52,60 to determine the position of the object (e.g. fig. 2). Consequently, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the device of '734 to have included the position measuring means as taught by Baker to accurately determine the thickness of the object at different locations.

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As to claims 2,12,19, 32-33, '734 discloses the means for moving the object between the eddy current heads gap. The use of a robotic end effector is known in the semiconductor wafer art and is considered an obvious variation (e.g. note 6,578,893).

As to claims 8-10,16-17,25-27,45, the position sensor in baker detects an edge of the wafer and is an optical sensor (col. 5, lines 9+).

Claims 3-5,13-14,20-22,29-30,36-37,42 are rejected under 35 U.S.C. 103(a) as being unpatentable over combination of '734-Baker and in view of Hassan (5,886,521).

As to claims 3-5,13-14,20-22,29-30,36-37,42, the combination of '734 and Baker discloses an apparatus for measuring the thickness of the object as explained above except for a displacement sensor. Hassan discloses a displacement sensor to detect the displacement of the test object with respect to the sensing head (Note figs. 1-2). '734 teaches in fig. 2 that the position of the object with respect to heads is important for measuring the thickness. One ordinary skilled in the art would modify the device of '734 to have included a displacement sensor as taught by Hassan to accurately determine the thickness of the object. The displacement sensor in Hassan is a laser distance sensor (Figs. 1-2).

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4. Applicant's arguments with respect to claims 1-45 have been considered but are moot in view of the new ground(s) of rejection.

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Note PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jay M. Patidar whose telephone number is 571-272-2265. The examiner can normally be reached on M-Thur 7:00-5:30.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Art Unit 2862

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August 8, 2005